

### Abstract

The invention concerns DNA and peptide sequences encoding a novel mammalian secreted group IIF phospholipase A<sub>2</sub> wherein said enzyme is Ca<sup>2+</sup>-dependent, maximally active at pH 7-8, and hydrolyzes phosphatidylglycerol versus phosphatidylcholine with a 15-fold preference and more particularly, a novel human group IIF phospholipase A<sub>2</sub>. The invention also concerns the use of this enzyme in methods for screening various chemical compounds.

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